

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND GALLOWAY AVENUE IN BALTIMORE COUNTY, MARYLAND. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 45 (YORK RD) APPROACHES OPERATING CONCURRENTLY AND THE GALLOWAY AVE. APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN LAG PHASING IS PROVIDED FOR THE SOUTHBOUND MD 45 APPROACH.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 45.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.04-01 (SHOULDER WORK) STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)  
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE) STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)  
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

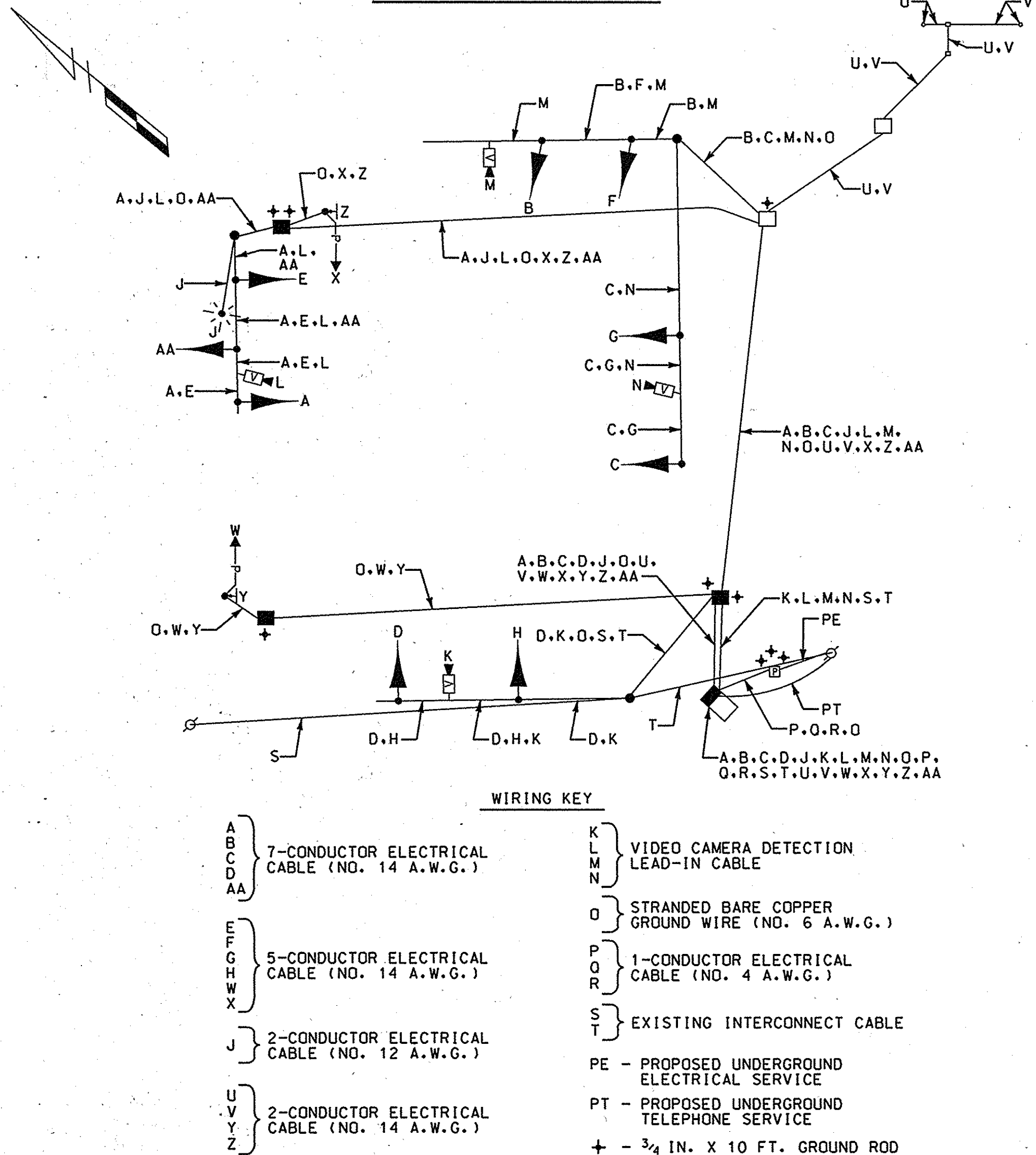
MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781/2785

MR. MIKE PASQUARIELLO  
ASST. DISTRICT UTILITY ENGINEER  
PHONE: (410) 321-2841

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

WIRING DIAGRAM



EQUIPMENT LIST "A"

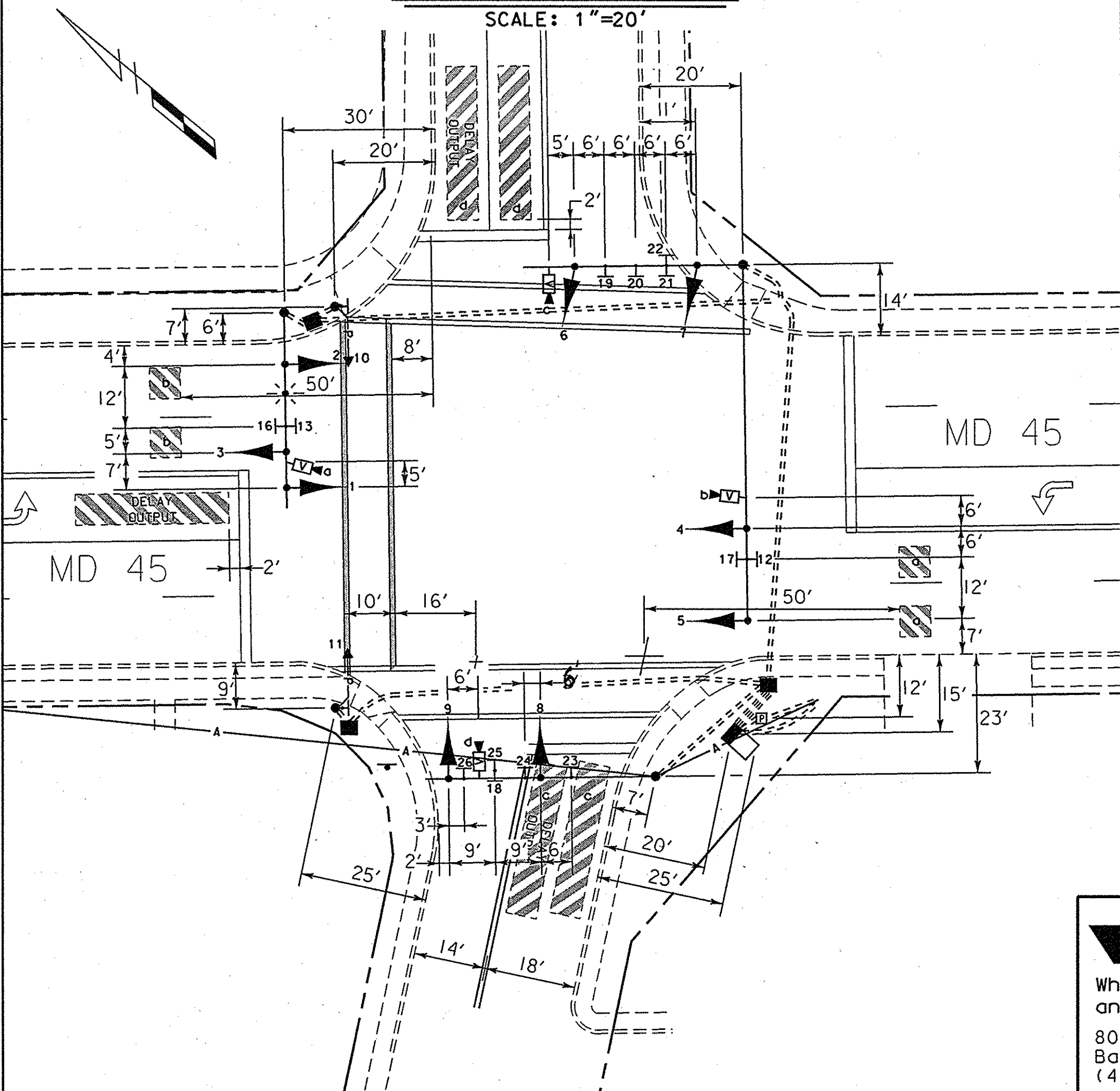
A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	103 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : <ul style="list-style-type: none"><li>- 4 EACH D-3(1) SIGN (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT</li><li>- 1 EACH R3-5L SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT</li><li>- 1 EACH R3-2 (MOD) SIGN (30 IN. X 30 IN.) - MAST ARM MOUNT</li><li>- 1 EACH R3-6 (MOD) SIGN (42 IN. X 36 IN.) - MAST ARM MOUNT</li><li>- 1 EACH W14-2 FL/Y SIGN (30 IN. X 30 IN.) - GROUND MOUNT</li><li>- 2 EACH M95-1 (72 IN. X 24 IN.) - MAST ARM MOUNT</li><li>- 2 EACH R10-4(1) SIGN (5 IN. X 7 IN.) - POLE MOUNT</li></ul>

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	
	R	R	Y	Y	R	R	R	R	R	Y	Y	
	Y	Y	G	G	Y	Y	Y	Y	Y	G	G	
	G	G	R	R	G	G	G	G	G	R	R	
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	DW	DW	
2 + 6 CHANGE	Y	Y	G	G	G	R	R	R	R	DW	DW	
PHASE 1 + 6	R	R	G	G	G	R	R	R	R	DW	DW	
1 + 6 CHANGE	R	R	G	G	G	R	R	R	R	DW	DW	
PHASE 4 + 8	R	R	R	R	R	G	G	G	G	DW	DW	
4 + 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE 4 + 8 ALT	R	R	R	R	R	G	G	G	G	WK	WK	
PED CLEARANCE	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	
4 + 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
FIREHOUSE PRE-EMPTION	R	R	R	R	R	R	R	G	G	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

DIMENSION DIAGRAM



EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	2 C.Y.	TEST PIT EXCAVATION
5002	110 L.F.	5 INCH HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5003	20 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	150 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6005	95 S.F.	4 IN. CONCRETE SIDEWALK
8001	13 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8003	16 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8004	9 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8007	2 EACH	8 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8005	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8010	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS
8014	1 EACH	CONTROL CABLE, 200 FT. VIDEO DETECTION CAMERA TO CONTROLLER
8015	3 EACH	CONTROL CABLE, 300 FT. VIDEO DETECTION CAMERA TO CONTROLLER
8021	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8027	2 EACH	PED. POLE (ANY SIZE)
8028	36 S.F.	RELOCATE SIGN
8029	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8030	4 EACH	REMOVE AND DISPOSE FOUNDATION 12 IN. BELOW GRADE
8038	320 L.F.	DISCONNECT, PULL-BACK AND REROUTE CABLES
8042	15 L.F.	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8044	315 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8047	1 EACH	WEATHER HEAD, 3 INCH
8051	35 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	85 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8056	240 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8058	1 EACH	INSTALL METERED SERVICE PEDESTAL
8061	55 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8067	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8069	7 S.F.	INSTALL GROUND MOUNTED SIGN
8070	96 S.F.	INSTALL OVERHEAD SIGN
8071	4 EACH	VIDEO DETECTION CAMERA
8076	1 EACH	STEEL POLE WITH A SINGLE 38 FT. MAST ARM
8077	1 EACH	STEEL POLE WITH A SINGLE 50 FT. MAST ARM
8080	1 EACH	STEEL POLE WITH A TWIN 50 FT. AND 70 FT. MAST ARMS
8084	1 EACH	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8091	9 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8096	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8099	1165 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
8101	470 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8102	1120 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8103	270 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.) TC
8107	1 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8112	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
NEG.	1 EACH	8 INCH YELLOW LED SIGNAL HEAD SECTION

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET AND VIDEO DETECTION CAMERA AS NOTED ON PLANS. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

TOD No: AT717-21  
SHA No: BA523A58/B58  
Baltimore County



Whitman, Reardon  
and Associates, LLP  
801 South Caroline Street  
Baltimore, Maryland 21231  
(410) 235-3450



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
MD 45 AND GALLOWAY AVENUE

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO. AT7175185	T.I.M.S. NO.	
SCALE: NONE	COUNTY: BALTIMORE	LOG MILE:	2 OF 2
DATE: 3/22/2006			